AMENDMENTS TO THE DRAWINGS

Attached hereto are five (5) sheets of corrected drawings that comply with the provisions of 37 C.F.R. § 1.84. The corrected drawings incorporate the following drawing changes:

Figs. 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B and 4C have been labeled as "(PRIOR ART)".

It is respectfully requested that the corrected drawings be approved and made a part of the record of the above-identified application.

REMARKS

Claims 1-17 remain present in this application.

The specification and claim 1 have been amended. Reconsideration of the application, as amended, is respectfully requested.

Objection to the Drawings

The drawings stand objected to for an informality. Accordingly, attached hereto are five (5) replacement drawings sheets, in which Figs. 1A-4C have been labeled as "(PRIOR ART)," as required by the Examiner. Reconsideration and withdrawal of any objection to the drawings are respectfully requested.

Objection to the Specification

The specification stands objected to for certain informalities. In view of the foregoing amendments, in which the Examiner's helpful suggestions have been followed, it is respectfully submitted that these informalities have been addressed. Reconsideration and withdrawal of any objection to the disclosure are respectfully requested.

Rejection under 35 USC 112

Claims 1-4 stand rejected under 35 USC 112, second paragraph. This rejection is respectfully traversed.

In view of the foregoing amendments, it is respectfully submitted that the claims particularly point out and distinctly claim the subject matter of the instant invention.

Reconsideration and withdrawal of the 35 USC 112, second paragraph rejection are respectfully requested.

Rejection under 35 USC 102

Claims 1-4 stand rejected under 35 USC 102(b) as being anticipated by the Applicant's Admitted Prior Art. This rejection is respectfully traversed.

It is noted that independent claim 1 recites a pulse-type gas concentration measurement system comprising a sensor, a pulse power supply module, and a processing supply. The sensor is disposed in a specific environment, and outputs a first signal and a second signal. The sensor has a voltage input element, an output element and a sensing element. The pulse power supply module is connected to the voltage input element, and sends a variable pulse-modulated voltage and a square-wave pulse with a detection voltage to the sensor through the voltage input element. The processing- device is connected to the output element of the sensor, and stores a plurality of chemical matter characteristics signals, and determines the detection voltage according to the first signal from the sensor, and compares the first signal with the chemical matter characteristics signals to determine composition of the gas and concentration of respective constituents of the gas, and compares the second signal from the sensor to the chemical matter characteristics signal to determine the concentration of respective constituents of the gas.

The Applicant's Admitted Prior Art discloses an intelligent gas identification system having a sensor 10, a pulse power supply module 20, and a processing device 30, as shown in Fig. 3A. A conventional gas concentration sensor 500, as shown in Fig. 1A, has a body 510, voltage input elements 520, and output elements 530. The body 510 has a sensing element 516.

The Applicant's Admitted Prior Art, however, does not disclose that the pulse power supply module sends a square-wave pulse with a detection voltage to the sensor through the voltage input element. The Applicant's Admitted Prior Art also does not disclose that the processing device determines the detection voltage according to the first signal from the sensor, and compares the second signal from the sensor to the chemical matter characteristics signal to determine the concentration of respective constituents of the gas.

In view of the foregoing amendments and remarks, it is respectfully submitted that the prior art utilized by the Examiner fails to teach or suggest the pulse-type gas concentration measurement system of independent claim 1, as well as its dependent claims. Reconsideration and withdrawal of the 35 USC 102(b) rejection are respectfully requested.

Allowable Subject Matter

Applicants gratefully acknowledge that the Examiner considers claims 5-17 to contain allowable subject matter. In view of the foregoing amendments and remarks, it is respectfully submitted that all claims should be in condition for allowance.

Conclusion

Favorable reconsideration and an early Notice of Allowance are earnestly solicited.

Because the additional prior art cited by the Examiner has been included merely to show the state of the prior art and has not been utilized to reject the claims, no further comments concerning this documents are considered necessary at this time.

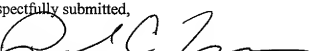
In the event that any outstanding matters remain in this application, the Examiner is invited to contact the undersigned at (703) 205-8000 in the Washington, D.C. area.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), the Applicants respectfully petition for a one (1) month extension of time for filing a response in connection with the present application and the required fee of $120.00 is attached herewith.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Dated: October 22, 2007

Respectfully submitted,

By 

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Attachments